MycoKeys 23: 1–91 (2017)
doi: 10.3897/mycokeys.22.12666
http://mycokeys.pensoft.net

CHECKLIST

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A new checklist of lichenized fungi occurring in Thailand

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Academic editor: *C. Gueidan* | Received 11 March 2017 | Accepted 13 April 2017 | Published 9 June 2017

Citation: Buaruang K, Boonpragob K, Mongkolsuk P, Sangvichien E, Vongshewarat K, Polyiam W, Rangsiruji A, Saipunkaew W, Naksuwankul K, Kalb J, Parnmen S, Kraichak E, Phraphuchamnong P, Meesim S, Luangsuphabool T, Nirongbut P, Poengsungnoen V, Duangphui N, Sodamuk M, Phokaeo S, Molsil M, Aptroot A, Kalb K, Lücking R, Lumbsch HT (2017) A new checklist of lichenized fungi occurring in Thailand. MycoKeys 23: 1–91. https://doi.org/10.3897/mycokeys.23.12666

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Abstract

A new revised checklist of lichenized fungi in Thailand is presented, including 1,292 species. Recent work on the taxonomy of these organisms in Thailand resulted in an enormous increase in our knowledge of the lichen biota of the country – the current checklist includes more than twice as many species as the previous catalogue published 15 years ago – and phylogenetic studies resulted in numerous changes in the generic classification of lichenized fungi. Hence, a new checklist is here presented summarizing the current knowledge of lichens in Thailand. Six new records are reported, viz. *Acanthothecis salazinica*, *Bactrospora metabola*, *Buellia parastata*, *Diploschistes cinereocaesius*, *Rolfidium coccocarpioides*, and *Trapelia placodioides*. Five previously recorded species, namely *Lecanora carpinea*, *Platismatia glauca*, *P. lacunosa*, *P. tuckermanii* and *Roccella phycopsis* are shown to be based on misidentifications and are excluded from the checklist. Three new combinations of species previously placed in *Pertusaria* to *Lepra* are proposed: *L. bulolensis* (A.W.Archer, Elix & Streimann) Schmitt & Lumbsch, *L. patellifera* (A.W.Archer) Schmitt & Lumbsch, and *L. subventosa* (Malme) Schmitt & Lumbsch.

Keywords

Asia, biodiversity, lichens, new records, taxonomy

Introduction

The lichen flora of Thailand is rich due to the numerous habitats with high diversity especially in montane forests and coastal forests and the fact that it includes monsoonal, seasonal dry habitats, tropical lowland forests in the south and subtropical habitats in northern montane forests. The country is situated in the Indo-Chinese floristic region, bordering the distinct Indian, Malesian and the Eastern Asiatic floristic regions (Takhtajan 1986) with floristic interchange adding to the diversity of the flora. Despite the species richness of this tropical country, the lichen flora has been poorly known for a long time. This is partly due to the fact that the exploration of the lichen flora depended almost entirely on sporadic visits of overseas scientists starting with studies by Vainio (1909, 1921) reporting on collections by Danish expeditions to Koh Chang island in the southeast of the country and Doi Suthep in northern Thailand. A number of workshops and increased collaborations of oversees scientists with Thai colleagues starting in the 1990s laid the foundation for a renewed interest in lichens in the country, including the workshop 'Lichen Taxonomy and Biology' at Khao Yai National Park in 1998 (Boonpragob et al. 1998), a 'Thelotremataceae workshop' in 2008 (Boonpragob et al. 2010), and the organization of the IAL7 conference in 2012 (Brodo 2012). This resulted in an enormous increase in studies addressing lichen biodiversity and taxonomy in Thailand. As a result of this scientific activity the number of species listed in this checklist (1,292) is more than twice as high as in the last catalogue (Wolseley et al. 2002) with 554 species that was only published 15 years ago. In parallel with this increase in knowledge of the diversity of lichens in Thailand, our understanding of the evolution of lichenized fungi and their phylogenetic relationships dramatically increased over the last decades due to molecular data (Jaklitsch et al. 2016; Lücking et al., 2016; Lumbsch 2000; Lumbsch and Huhndorf 2010; Printzen 2010). This resulted in numerous changes in the generic classification that make it difficult for

users to interpret older names in the literature. To make the information of our current knowledge of species occurring in Thailand and their currently used names more readily available, we have compiled this revised checklist that is based on Wolseley et al. (2002) and subsequently published results and also includes revision of doubtful records. As a result of our studies of voucher material, five species are excluded from the checklist. We anticipate that this checklist will help to further stimulate taxonomic research in Thailand and adjacent countries in Southeast Asia.

The checklist

1. *Absconditella delutula* (Nyl.) Coppins & H.Kilias, in Hawksworth et al., Lichenologist 12: 106 (1980)
   Literature: Aptroot et al., 2007
2. *Acanthothecis salazinica* S. Joshi & Hur, Lichenologist 45: 600 (2013)
3. *Aderkomyces armatus* (Vězda) Lücking, Sérus. & Vězda, Lichenologist 37: 161 (2005)
   Literature: Aptroot et al., 2007
4. *Aderkomyces thailandicus* Papong, Boonpragob & Lücking, Phytotaxa 18: 11 (2011)
   Literature: Lumbsch et al., 2011
5. *Agonimia pacifica* (H.Harada) Diederich, in Aptroot et al., Biblioth. Lichenol. 64: 12 (1997)
   Literature: Aptroot et al., 2007
6. *Agonimia tristicula* (Nyl.) Zahlbr., Bot. Anstalt. Wien, Österr. bot. Z. 5: 351 (1909)
   Literature: Aptroot et al., 2007
7. *Amandinea diorista* (Nyl.) Marbach, Biblioth. Lichenol. 74: 58 (2000)
   Literature: Meesim and Mongkolsuk 2010b
8. *Amandinea diorista* var. *hypopelidna* (Stirt.) Marbach, Biblioth. Lichenol. 74: 60 (2000)
   Literature: Van den Boom et al. 2014
9. *Amandinea efflorescens* (Müll.Arg.) Marbach, Biblioth. Lichenol. 74: 61 (2000)
   Literature: Aptroot et al., 2007; Van den Boom et al. 2014
10. *Amandinea extenuata* (Müll.Arg.) Marbach, Biblioth. Lichenol.74: 71 (2000)
    Literature: Aptroot et al., 2007
11. *Amandinea melaxanthella* (Nyl.) Marbach, Biblioth. Lichenol. 74: 87 (2000)
    Literature: Vainio 1909 as *Buellia melaxanthella*; Wolseley et al., 2002 as *Buellia stramineoatra*; Aptroot et al., 2007; Van den Boom et al., 2014
12. *Amandinea montana* (H. Magn.) Marbach, Biblioth. Lichenol. 74: 93 (2000)
    Literature: Meesim and Mongkolsuk 2010b as *Buellia montana*
13. *Amandinea pelidna* (Ach.) Fryday & L. Arcadia, Graphis scripta 24: 41 (2012)
    Literature: Mongkolsuk and Meesim 2012, as *Amandinea lecideina*

14. *Amandinea placodiomorpha* (Vain.) Marbach, Biblioth. Lichenol. 74: 99 (2000)
    Literature: Aptroot et al., 2007
15. *Amandinea punctata* (Hoffm.) Coppins & Scheid., Lichenologist 25: 343 (1993)
    Literature: Meesim and Mongkolsuk 2010b as *Buellia punctata*; Mongkolsuk and Meesim 2012
16. *Ampliotrema palaeoamplius* (Aptroot & Sipman) Kalb ex Kalb, Biblioth. Lichenol. 92: 81 (2006)
    Literature: Yoshimura 1978; Homchantara and Coppins 2002; Wolseley et al., 2002 as *Ocellularia palaeoamplior*; Kalb 2009
17. *Ampliotrema rimosum* (Hale) Mercado-Díaz, Lücking & Parnmen, Phytotaxa 189: 190 (2014)
    Literature: Kraichak et al. 2014; Lumbsch et al., 2014 as *Ocellularia rimosa*; Sutjaritturakan and Kalb 2015
18. *Anisomeridium adnexum* (Müll.Arg.) R.C.Harris, More Florida Lichens, Incl. 10 Cent Tour Pyrenol.: 143 (1995)
    Literature: Aptroot et al., 2007
19. *Anisomeridium asiaticum* Vain., Hedwigia 46: 180 (1907)
    Literature: Vainio 1909; Alava 1988; Wolseley et al., 2002 as *Microthelia asiatica*
20. *Anisomeridium consimile* (Vain.) R.C.Harris, More Florida Lichens, Incl. 10 Cent Tour Pyrenol. (New York): 145 (1995)
    Literature: Aptroot et al., 2007
21. *Anisomeridium consobrinum* (Nyl.) Aptroot, in Aptroot et al., Biblioth. Lichenol. 57: 21 (1995)
    Literature: Mongkolsuk et al., 2013 as *Arthopyrenia consobrina*
22. *Anisomeridium foliicola* R.Sant. & Tibell, Austrobaileya 2: 531 (1988)
    Literature: Boonpragob et al., 1998; Wolseley et al., 2002
23. *Anisomeridium polypori* (Ellis & Everh.) M.E.Barr, in Barr et al., Mem. New York Bot. Gard. 79: 76 (1996)
    Literature: Aptroot et al., 2007
24. *Anisomeridium subprostans* (Nyl.) R.C.Harris, in Tucker & Harris, Bryologist 83: 4 (1980)
    Literature: Aptroot et al., 2007
25. *Anisomeridium tamarindi* (Fée) R.C.Harris, in Tucker & Harris, Bryologist 83: 4 (1980)
    Literature: Aptroot et al., 2007
26. *Anisomeridium throwerae* R.C.Harris, More Florida Lichens, Incl. 10 Cent Tour Pyrenol.: 150 (1995)
    Literature: Schumm and Aptroot 2012
27. *Anthracothecium macrosporum* (Hepp) Müll.Arg., Linnaea 43: 44 (1880)
    Literature: Paulson 1930 as *Anthracothecium pyrenuloides*; Wolseley et al., 2002; Aptroot et al., 2007 as *Anthracothecium columellatum*

28. *Anthracothecium prasinum* (Eschw.) R.C.Harris, in Egan, Bryologist 90: 163 (1987)
Literature: Wolseley and Aguirre-Hudson 1997a, 1997b; Boonpragob et al., 1998; Wolseley et al., 2002
29. *Arctomia fascicularis* (L.) Otálora & Wedin, Lichenologist 45: 292 (2013)
Literature: Aptroot et al., 2007 as *Collema fascicularis*
30. *Arthonia complanata* Fée, Essai Crypt. Écorc.: 54 (1825) [1824]
Literature: Vainio 1909; Wolseley et al., 2002
31. *Arthonia cyanea* var. *cyanea* Müll.Arg., Flora 64: 233 (1881)
Literature: Papong et al., 2007
32. *Arthonia lividula* Vain., Ann. Acad. Sci. Fenn., Ser. A, 15: 309 (1921)
Literature: Papong et al., 2007
33. *Arthonia mira* R.Sant., Symb. Bot. Upsal. 12: 77 (1952)
Literature: Boonpragob et al., 1998; Wolseley et al., 2002
34. *Arthonia obscuratula* Zahlbr., Cat. Lich. Univ. 2: 71 (1922) [1924]
Literature: Vainio 1909; Wolseley et al., 2002 as *Arthonia obscurata*
35. *Arthonia ochrodes* Nyl., Syn. Gen. *Arthonia*: 10 (1890)
Literature: Vainio 1909; Wolseley et al., 2002
36. *Arthonia perpallens* Nyl., Ann. Sci. Nat., Bot. 20: 231 (1863)
Literature: Vainio 1909; Wolseley et al., 2002
37. *Arthonia ramosii* (Räsänen) R.Sant., Symb. Bot. Upsal. 12: 76 (1952)
Literature: Papong et al., 2007
38. *Arthonia rhizophorae* Vain., Bot. Tidsskr. 29: 141 (1909)
Literature: Vainio 1909; Alava 1988; Wolseley et al., 2002
39. *Arthonia trilocularis* Müll.Arg., Flora 64: 233 (1881)
Literature: Papong et al., 2007
40. *Arthonia varia* var. *stenographella* (Nyl.) Vain., Ann. Acad. Sci. Fenn., Ser. A, 15: 393 (1921)
Literature: Vainio 1909 as *Arthonia stenographella*; Wolseley et al., 2002
41. *Arthothelium monosporum* (Vain.) Zahlbr., Cat. Lich. Univ. 2: 129 (1922) [1924]
Literature: Vainio 1921; Alava 1988 as *Arthonia monospora*; Wolseley et al., 2002
42. *Arthothelium ruanum* (A.Massal.) Körb., Parerga Lichenol.: 263 (1861)
Literature: Vainio 1909 as *Arthonia ruana*; Wolseley et al., 2002
43. *Arthothelium ruanum* var. *phaeosporum* (Vain.) Zahlbr., Cat. Lich. Univ. 2: 132 (1922)
Literature: Vainio 1909; Alava 1988 as *Arthonia ruana* var. *phaeospora*; Wolseley et al., 2002
44. *Arthothelium spectabile* A.Massal., Ric. Auton. Lich. Crost.: 54 (1852)
Literature: Paulson 1930 as *Arthothelium spectabile*; Wolseley et al., 2002
45. *Aspidothelium cinerascens* Vain., Acta Soc. Fauna Fl. Fenn. 7: 189 (1890)
Literature: Aptroot et al., 2007

46. *Aspidothelium fugiens* (Müll.Arg.) R.Sant., in Thorold, J. Ecol. 40: 129 (1952)
Literature: Aptroot et al., 2007
47. *Asteristion alboannuliforme* (Nagarkar, Sethy & Patw.) I. Medeiros, Lücking & Lumbsch, Fieldiana 9: 7 (2017)
Literature: Wolseley et al., 2002 as *Thelotrema alboannuliforme*
48. *Asterothyrium microsporum* R.Sant., Symb. Bot. Upsal. 12: 320 (1952)
Literature: Aptroot et al., 2007
49. *Asterothyrium pittieri* Müll.Arg., Bull. Soc. Roy. Bot. Belgique 30: 71 (1891)
Literature: Aptroot et al., 2007
50. *Astrochapsa astroidea* (Berk. & Broome) Parnmen et al., PLoS ONE 7 (12): e51392 (2012)
Literature: Boonpragob et al., 1998; Wolseley et al., 2002 as *Thelotrema astroideum*; Parnmen, et al. 2012 as *Chapsa astroidea*; Lumbsch et al., 2014; Poengsungnoen et al., 2014a
51. *Astrochapsa calathiformis* (Vain.) Parnmen et al., PLoS ONE 7 (12): e51392 (2012)
Literature: Vainio 1909; Yoshimura 1978; Wolseley et al., 2002 as *Thelotrema calathiforme*; Homchantara and Coppins 2002 as *Thelotrema phliuense*; Papong et al., 2010 as *Chapsa calathiformis*
52. *Astrochapsa kalbii* Poengs., Lücking & Lumbsch, Phytotaxa 189: 274(2014)
Literature: Poengsungnoen et al., 2014a
53. *Astrochapsa zahlbruckneri* (Nyl.) Parnmen, Lücking & Lumbsch, PLoS ONE 7 (12): e51392, 10 (2012)
Literature: Lumbsch et al., 2014; Poengsungnoen et al., 2014a
54. *Astrochapsa pseudophlyctis* (Nyl.) Parnmen, Lücking & Lumbsch, PLoS ONE 7 (12): e51392, 9 (2012)
Literature: Wolseley et al., 2002 as *Thelotrema subhiatum*; Parnmen, et al. 2012 as *Chapsa pseudophlyctis*; Lumbsch et al., 2014; Poengsungnoen et al., 2014a
55. *Astrothelium aenascens* Aptroot, in Aptroot et al. , Lichenologist 48: 611 (2016)
Literature: Luangsuphabool et al., 2016
56. *Astrothelium aeneum* (Eschw.) Aptroot & Lücking, Lichenologist 48: 821 (2016)
Literature: Aptroot et al., 2007 as *Trypethelium aeneum*; Aptroot and Lücking 2016
57. *Astrothelium cinereorosellum* (Kremp.) Aptroot & Lücking, Lichenologist 48: 853 (2016)
Literature: Aptroot et al., 2007 as *Trypethelium cinereorosellum*; Aptroot and Lücking 2016
58. *Astrothelium degenerans* (Vain.) Aptroot & Lücking, Lichenologist 48: 857 (2016)
Literature: Aptroot et al., 2007, as *Bathelium degenerans*; Aptroot and Lücking 2016
59. *Astrothelium eustomum* (Mont.) Müll.Arg., Flora 68: 247 (1885)
Literature: Aptroot et al., 2007; Aptroot and Lücking 2016

60. *Astrothelium flavocoronatum* Luangsuphabool, Aptroot & Sangvichien, Lichenologist 48: 731 (2016)
Literature: Luangsuphabool et al., 2016
61. *Astrothelium indicum* (Upreti & Ajay Singh) Aptroot & Lücking, Lichenologist 48: 857 (2016)
Literature: Aptroot et al., 2007, as *Laurera indica*; Aptroot and Lücking 2016
62. *Astrothelium keralense* (Upreti & Ajay Singh) Aptroot & Lücking, Lichenologist 48: 865 (2016)
Literature: Vongshewarat et al., 1999; Wolseley et al., 2002, both as *Laurera keralensis*; Aptroot and Lücking 2016
63. *Astrothelium macrocarpum* (Fée) Aptroot & Lücking, Lichenologist 48: 867 (2016)
Literature: Aptroot et al., 2007 as *Astrothelium galbineum*; Aptroot and Lücking 2016
64. *Astrothelium macrostiolatum* Luangsuphabool, Aptroot & Sangvichien, Lichenologist 48: 732 (2016)
Literature: Luangsuphabool et al., 2016
65. *Astrothelium megaspermum* (Mont.) Aptroot & Lücking, Lichenologist 48: 870 (2016)
Literature: Vongshewarat et al., 1999; Wolseley et al., 2002, both as *Laurera megasperma*; Aptroot and Lücking 2016
66. *Astrothelium meristosporoides* (P.M.McCarthy & Vongshew.) Aptroot & Lücking, Lichenologist 48: 871 (2016)
Literature: Vongshewarat et al., 1999; Wolseley et al., 2002, both as *Laurera meristosporoides*; Aptroot and Lücking 2016
67. *Astrothelium meristosporum* (Mont. & Bosch) Aptroot & Lücking, Lichenologist 48: 871 (2016)
Literature: Vainio 1909; Alava 1988 as *Thelenella interrupta*; Boonpragob et al., 1998; Wolseley et al., 2002, all as *Laurera meristospora*; Aptroot and Lücking 2016
68. *Astrothelium neglectum* Luangsuphabool, Aptroot & Sangvichien, Lichenologist 48: 733 (2016)
Literature: Luangsuphabool et al., 2016
69. *Astrothelium neovariolosum* Luangsuphabool, Aptroot & Sangvichien, Lichenologist 48: 734 (2016)
Literature: Luangsuphabool et al., 2016
70. *Astrothelium nitidiusculum* (Nyl.) Aptroot & Lücking, Lichenologist 48: 873 (2016)
Literature: Aptroot et al., 2007 as *Trypethelium nitidiusculum*; Aptroot and Lücking 2016
71. *Astrothelium siamense* Luangsuphabool, Aptroot & Sangvichien, Lichenologist 48: 735 (2016)
Literature: Luangsuphabool et al., 2016

72. *Astrothelium subdiscretum* (Nyl.) Aptroot & Lücking, Lichenologist 48: 890 (2016)
Literature: Vongshewarat et al., 1999; Wolseley et al., 2002, both as *Laurera subdiscreta* and as *Laurera phaeomelodes*; Aptroot and Lücking 2016
73. *Astrothelium subdissocians* (Nyl. ex Vain.) Aptroot & Lücking, Lichenologist 48: 891 (2016)
Literature: Vainio 1909, 1921 as *Pseudopyrenula ochroleuca* var. *subdissocians*; Aptroot and Lücking 2016
74. *Astrothelium variolosum* (Ach.) Müll. Arg., Flora, Regensburg 68(12): 255 (1885)
Literature: Wolseley et al., 2002 as *Trypethelium variolosum*; Aptroot et al., 2007; Aptroot and Lücking 2016
75. *Aulaxina microphana* (Vain.) R.Sant., Symb. Bot. Upsal. 12: 299 (1952)
Literature: Papong et al., 2007
76. *Aulaxina quadrangula* (Stirt.) R.Sant., J. Ecol. 40: 129 (1952)
Literature: Aptroot et al., 2007
77. *Austrotrema terebrans* (Nyl.) I. Medeiros, Lücking & Lumbsch, Fieldiana 9: 17 (2017)
Literature: Medeiros et al., 2017; Schumm and Aptroot 2012, as *Thelotrema bicinctulum*
78. *Bacidia heterochroa* (Müll.Arg.) Zahlbr., Cat. Lich. Univ. 4: 204 (1926)
Literature: Aptroot et al., 2007
79. *Bacidia hostheleoides* (Nyl.) Zahlbr., Cat. Lich. Univ. 4: 205 (1926) [1927]
Literature: Schumm and Aptroot 2012
80. *Bacidia manilensis* var. *siamensis* Vain., Suom. Elian-ja Kasvit. Seuran Van. Julk. 1: 46 (1921)
Literature: Vainio 1921; Wolseley et al., 2002
81. *Bacidia medialis* (Tuck.) Zahlbr., Denkschr. Kaiserl. Akad. Wiss., Wien. Math.-Naturwiss. Kl. 83: 127 (1909)
Literature: Aptroot et al., 2007; Schumm and Aptroot 2012
82. *Bacidia squamellosa* (S.Ekman) Coppins & Aptroot, Lichenologist 40: 367 (2008)
Literature: Aptroot et al., 2007 as *Bacidina squamellosa*
83. *Bacidia subincompta* (Nyl.) Arnold, Flora 53: 472 (1870)
Literature: Paulson 1930 as *Bacidia atrosanguinea*; Wolseley et al., 2002 as *Bacidia affinis*
84. *Bacidina pallidocarnea* (Müll.Arg.) Vězda, Folia Geobot. Phytotax. 25: 432 (1991)
Literature: Papong et al., 2007
85. *Bacidina penicillata* Aptroot, M.Cáceres, Lücking & Sparrius, in Aptroot et al., Fungal Diversity 24: 87 (2007)
Literature: Aptroot et al., 2007
86. *Bacidiopsora orizabana* (Vain.) Kalb, Biblioth. Lichenol. 88: 304 (2004)
Literature: Aptroot et al., 2007

87. *Bacidiopsora squamulosula* (Nyl.) Kalb, Lichenes Neotropici, Fascicle 10: 4 (1988)
Literature: Aptroot et al., 2007
88. *Bactrospora metabola* (Nyl.) Egea & Torrente, Mycotaxon 53: 58 (1995)
89. *Bactrospora inspersa* Aptroot, in Aptroot et al., Fungal Diversity 24: 89 (2007)
Literature: Aptroot et al., 2007
90. *Bactrospora myriadea* (Fée) Egea & Torrente, Lichenologist 25: 245 (1993)
Literature: Kalb et al., 2012
91. *Bactrospora perspiralis* Sparrius, Saipunkaew & Wolseley, Lichenologist 38: 29 (2006)
Literature: Sparrius et al., 2006
92. *Bactrospora subdryina* Sparrius, Saipunkaew & Wolseley, Lichenologist 38: 28 (2006)
Literature: Sparrius et al., 2006
93. *Badimia multiseptata* Papong & Lücking, Phytotaxa 18: 19 (2011)
Literature: Lumbsch et al., 2011
94. *Baglietto baldensis* (A.Massal.) Vězda, in Poelt & Vězda, Biblioth. Lichenol. 16: 363 (1981)
Literature: Aptroot et al., 2007
95. *Bathelium albidoporum* (Makhija & Patw.) Aptroot & Lücking, Lichenologist 48: 897 (2016)
Literature: Aptroot and Lücking 2016
96. *Bathelium madreporiforme* (Eschw.) Trevis., Flora 44: 21 (1861)
Literature: Boonpragob et al., 1998 as *Laurera madreporiformis*; Wolseley et al., 2002; Aptroot et al., 2007; Aptroot and Lücking 2016
97. *Bathelium nigroporum* (Makhija & Patw.) Aptroot & Lücking, Lichenologist 48: 900 (2016)
Literature: Vongshewarat et al., 1999; Wolseley et al., 2002 as *Trypethelium nigroporum*
98. *Blastenia testaceorufa* (Vain.) Zahlbr., Cat. Lich. Univers. 7: 43 (1930)
Literature: Vainio 1909; Alava 1988; Wolseley et al., 2002 as *Placodium testaceorufum*
99. *Bogoriella fumosula* (Zahlbr.) Aptroot & Lücking, Lichenologist 48: 910 (2016)
Literature: Aptroot et al., 2007 as *Mycomicrothelia fumosula*
100. *Bogoriella hemisphaerica* (Müll.Arg.) Aptroot & Lücking, Lichenologist 48: 910 (2016)
Literature: Aptroot et al., 2007 as *Mycomicrothelia hemisphaerica*
101. *Bogoriella miculiformis* (Nyl. ex Müll.Arg.) Aptroot & Lücking, Lichenologist 48: 912 (2016)
Literature: Aptroot et al., 2007 as *Mycomicrothelia miculiformis*
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Literature: Pooprang et al., 1999; Wolseley et al., 2002; Louwhoff et al., 2012

New combinations

Lepra buloloensis (A.W.Archer, Elix & Streimann) Schmitt & Lumbsch, **comb. nov.** (MB 820271)
Basionym: *Pertusaria buloloensis* A.W. Archer, Mycotaxon 56: 388 (1995).

Lepra patellifera (A.W.Archer) Schmitt & Lumbsch, **comb. nov.** (MB 820272)
Basionym: *Pertusaria patellifera* A.W. Archer, Mycotaxon 41: 237 (1991).

Lepra subventosa (Malme) Schmitt & Lumbsch, **comb. nov.** (MB 820274)
Basionym: *Pertusaria subventosa* Malme, Ark. Bot. 28A: 7(1936). Syn.: *Marfloraea subventosa* (Malme) S.Y. Kondr., L. Lökös & Hur, in Kondratyuk et al., Stud. Bot. Hungar. 46: 106 (2015).

New records

Acanthothecis salazinica S. Joshi & Hur, Lichenologist 45: 600 (2013)

Specimen examined: Thailand, Sukhothai province, Ban Dan Lan Hoi district, on trunk of *Sindora siamensis* Teijsm. ex Miq., in dry dipterocarp forest, 119 m alt., 2015, K. Vongshewarat & S. Senglek RAMK— 30206 & 30207.

Bactrospora metabola (Nyl.) Egea & Torrente, Mycotaxon 53: 58 (1995)

Specimen examined: Thailand, Trat province, Koh chang district, Ban Slak Khok, on trunk of *Rhizophora apiculata* Bl. in mangrove, 0 m alt., 2013, M. Sodamuk & N. Sriwongkorakot RAMK— 23429.

Buellia parastata (Nyl.) Zahlbr., Cat. Lich. Univ. 7: 386 (1930)

Specimens examined: Thailand, Nakhon Ratchasima Province, Khao Yai National Park, on trunk of *Lithocarpus gracilis* (Korth.) Soepadmo in tropical rain forest, 816 m alt., 2000, K. Noicharoen RAMK— 4072; on trunk of unidentified tree in secondary forest, 829 m alt., 1999, V. Sri-indrasutdhi RAMK— 4069; on trunk of unidentified tree in dry evergreen forest, 829 m alt., 1999, W. Polyiam RAMK— 4073.

Diploschistes cinereocaesius (Sw. ex Ach.) Vain., Ann, Acad. Sci. Fenn., ser. A 15(6): 172 (1921)

Specimen examined: Thailand, Mae Hong Son province, Khun Chae National Park, on soil in lower montane scrub, 1830 m alt., 2016, S. Senglek & P. Fuangkeaw RAMK— 30208

Rolfidium coccocarpioides (Nyl.) Timdal, Op. bot. 110: 121 (1991)

Specimens examined: Thailand, Nakhon Ratchasima Province, Sakaerat Environmental Research Station, on sandstone in dry dipterocarp forest, 300 m alt., 2013, W. Polyiam & N. Duangpui RAMK— 27954, 27955 & 27956.

Trapelia placodioides Coppins & P. James, Lichenologist 16: 257 (1984)

Specimen examined: Thailand, Nakhon Ratchasima Province, Khao Yai National Park, Khao Khaeo on rock in lower montane forest, 1,393 m alt., 2001, K. Boonpragob RAMK— 23965

Excluded species based on misidentifications (vouchers studied and reidentified)

Graphis siamensis Vain., Ann. Soc. Zool. Bot. Fenn. "Vanamo" 1(3): 52 (1921) (Wolseley et al., 2002) = *Diorygma hieroglyphicum* (Pers.) Staiger & Kalb, Biblioth. Lichenol. 85: 113 (2002)

Lecanora carpinea (Sriprang and Mongkolsuk 2010) = *Lecanora tropica* Zahlbr., Cat. Lich. Univ. 5: 589 (1928)

Platismatia glauca (Mongkolsuk et al., 1996) = *Parmotrema praesorediosum* (Nyl.) Hale, Phytologia 28: 338 (1974)

Platismatia lacunosa (Mongkolsuk et al., 1996) = *Parmotrema maclayanum* (Müll.Arg.) Hale, Phytologia 28: 337 (1974)

Platismatia tuckermanii (Mongkolsuk et al., 1996) = *Parmotrema explanatum* (Hale) Hale, Phytologia 28: 337 (1974)

Roccella phycopsis (Paulson 1930) = *Roccella montagnei* Bel., Voy. Indes Or. 2: 117 (1834)

Doubtful species

Amandinea coniops (Meesim and Mongkolsuk 2010b)
Bacidia spadicea (Sriprang and Mongkolsuk 2010)
Biatora sphaeroides (Sriprang and Mongkolsuk 2010)
Biatora vernalis (Sriprang and Mongkolsuk 2010)
Buellia punctiformis (Vainio 1921)
Byssoloma meadii (Sriprang and Mongkolsuk 2010)
Caloplaca ferruginea (Sriprang and Mongkolsuk 2010)
Haematomma infuscum (Sriprang and Mongkolsuk 2010)
Lecidea inolescens Vain., Suom. Elain-ja Kasvit. Seuran Van. Julk. 1: 48 (1921) (Wolseley et al., 2002) Type material unavailable
Physcia americana (Mongkolsuk et al., 1996)
Pyrrhospora gowardiana (Sriprang and Mongkolsuk 2010)
Ramboldia heterocarpa (Sriprang and Mongkolsuk 2010)

Acknowledgements

This work was financially supported by the National Council of Thailand (grant No. 183076).

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